

directing elements being arranged obliquely with respect to the longitudinal direction of the primary surfaces, said elongate directing elements in each row being mutually parallel;

said surface structures being alternately arranged in the longitudinal direction on the first and second primary surfaces, the directing elements in each laterally extending row of each surface structure being substantially parallel to the directing elements in the succeeding row of the succeeding surface structure on the opposing primary surface in the longitudinal direction of the tube;

said surface structure further comprising a laterally extending second row of mutually parallel directing elements, the directing elements of the second row being arranged at an angle ( $\gamma$ ) relative to the directing elements of the first row;

wherein a line describing a longitudinal edge of each directing element in the first row is substantially tangent to a tip of each directing element in the second row.

Please cancel Claims 3 and 8 and add the following new Claim 22:

+22. (New) A method of effecting heat transfer in a heat exchanger,

comprising:

introducing a plurality of partial flows into a heat exchanger tube with first and second opposing longitudinal primary heat-exchange surfaces, the tube defining a

longitudinal axis and

imparting to each of said partial flows a swirling motion about the longitudinal

axis.--